

ABSTRACT OF THE DISCLOSURE

A device includes a flux pump and an electromagnet to be fed thereby for the production of highly constant magnetic fields of high field strength. In a flux pump of the rectifier type, switches used are MOSFETs. These MOSFETs include HT_c superconductor material at operating temperatures. Preferably, the flux pump and a coil of the electromagnet are arranged in one and the same cryostat housing.